

CLAIMS

1. A multilayer film (15, 2, 3, 5) for the construction of skis (1), in particular for application to a ski base body (14) of an alpine ski, water ski, wakeboard, kiteboard, surfboard or snowboard,

characterised in that

the multilayer film (15, 2, 3, 5) has a multilayer transfer or laminating film (23, 32, 4, 56) comprising two or more thin layers, that a mechanically load-bearing layer (24, 31, 57) with preferably a high modulus of elasticity is arranged on a surface of the multilayer transfer or laminating film, and that a cover layer (22, 33, 51) is arranged on another surface of the multilayer transfer or laminating film.

2. A multilayer film (15, 2, 3, 5) as set forth in claim 1 characterised in that the transfer or laminating film (23, 32, 4, 56) has an adhesive layer (47, 55), a functional layer (43 through 46; 53 and 54) and a release layer (42, 52).

3. A multilayer film (15, 23, 32, 5) as set forth in claim 2 characterised in that the release layer (42, 52) is a clear lacquer layer which acts as a bonding layer in relation to the cover layer (22, 33, 51).

4. A multilayer film (15, 2, 3, 5) as set forth in claim 2 characterised in that the functional layer has a metal layer (46, 55).

5. A multilayer film (15, 2, 3, 5) as set forth in claim 2 characterised in that the functional layer has a thin film layer succession (44, 45) which produces color shifts by means of interference.

6. A multilayer film (15, 2, 3, 5) as set forth in claim 2 characterised in that the functional layer has a replication layer (43) into which a diffractive structure or a macrostructure is embossed.

7. A multilayer film as set forth in claim 2 characterised in that the functional layer has an HRI layer.

8. A multilayer film (15, 2, 3, 5) as set forth in claim 2 characterised in that the functional layer has a colored lacquer layer (53).

9. A multilayer film (15, 2, 3, 5) as set forth in claim 1 characterised in that the transfer or laminating film (23, 32, 4, 56) is deep-drawable.

10. A multilayer film (15, 2, 3, 5) as set forth in claim 1 characterised in that the cover layer (22, 33, 51) and the mechanically load-bearing layer (24, 31, 57) are each respectively thicker than the transfer or laminating film (23, 32, 4, 56), wherein the cover layer (22, 33, 51) is in particular of a thickness of between 50 and 125 μm and the mechanically load-bearing layer (24, 31, 57) is in particular of a thickness of between 100 μm and 2 mm.

11. A multilayer film as set forth in claim 1 characterised in that the mechanically load-bearing structure is embossed or structured.

12. A multilayer film (31) as set forth in claim 1 characterised in that the mechanically load-bearing layer (31) is transparent.

13. A multilayer film (15, 2, 5) as set forth in claim 1 characterised in that the cover layer (22, 51) is transparent.

14. A multilayer film as set forth in claim 1 characterised in that the cover layer comprises a thermoplastic material.

15. A multilayer film (15, 2, 3, 5) as set forth in claim 1 characterised in that the cover layer (22, 33, 51) comprises a printing ink or a lacquer, in particular a casting lacquer, a dip lacquer or a spray lacquer.

16. A multilayer film as set forth in claim 1 characterised in that the cover layer is structured.

17. A multilayer film as set forth in claim 1 characterised in that additional decoration is printed on to the multilayer transfer or laminating film.

18. A ski (1), in particular an alpine ski, water ski, wakeboard, kiteboard, surfboard or snowboard, having a ski base body (14) comprising one or more layers, characterised in that a multilayer film (15) as set forth in one of the foregoing claims is applied to the ski base body (14) on the side of the ski (1) in opposite relationship to the sole running surface (11).

19. A ski as set forth in claim 18 characterised in that the mechanically load-bearing layer (24, 57) is joined to the ski base body (14).

20. A ski as set forth in claim 18 characterised in that the cover layer (32) is joined to the ski base body (14).

21. A process for the production of a multilayer film (15, 2, 3, 5) for the construction of skis (1), in particular for the production of a multilayer film for application to a ski base body of an alpine ski, water ski, wakeboard, kiteboard, surfboard or snowboard, characterised in that

a multilayer transfer or laminating film (23, 32, 4, 56) comprising two or more thin layers is applied to a surface of a mechanically load-bearing layer (24, 31, 57) with a preferably high modulus of elasticity and a cover layer (22, 33, 51) is applied to a surface of the multilayer transfer or laminating film (23, 32, 4, 56), which is in opposite relationship to the mechanically load-bearing layer (24, 31, 57).

22. A process for the production of a ski (1), in particular an alpine ski, water ski, wakeboard, kiteboard, surfboard or snowboard,

characterised in that a multilayer film (15, 2, 3, 5) as set forth in one of claims 1 through 17 is applied to the ski base body (14) on the side of the ski (1), which is in opposite relationship to the sole running surface (11).